

MATERIAL SAFETY DATA SHEET

DPM 169

08-03-82

| CHEMICAL FAMILY: METAL | ALLOY | | | TRADE | NAME: | | · • • • • • • • • • • • • • • • • • • • |
|---------------------------|--|--------|-----------------|-----------|--|------------------|---|
| FORMULA: | | | D.O.T.SH | IPPING CL | ASS: Non-haza | rdous | |
| | | 1 | . PHYSI | CAL DAT | A | | |
| BOILING POINT (°F) | | see | below | SPECIFIC | C GRAVITY (WATE | R ≈ 1) | >7 |
| VAPOR PRESSURE (|) | N | /A | PERCEN | T VOLATILE (BY V | OLUME) | 0 |
| VAPOR DENSITY (AIR=1) | | N | /A | EVAPOR | ATION RATE (| =1) | N/A |
| SOLUBILITY IN WATER (% 6) | / wt.) | | 0 | | | | |
| APPEARANCE AND ODOR | | Gray | metal | lic bar | ,wire,ribbon | etc. with | no odor |
| | | II. H | AZARDO | US INGRE | DIENTS | | |
| MATERIAL | MP(°C) | BP(° | b) | % | TLV (mg/m ³) | C.A.S. REG | ISTRY # |
| TIN | 232 | 2270 | | | N/A | 7440-31-5 |). |
| LEAD | 327 | 1725 | A Section 1 | | 0.050 | 7439-92-1 | _ |
| ANTIMONY | 631 | 1380 | | | 0.500 | 7440-36-0 | |
| BISMUTH | 271 | 1560 | | | N/A | 7440-69-9 | 1 |
| CADMIUM | 321 | 765 | | | 0.100 | 7440-43-9 | |
| SILVER . | 961 | 2210 | | للن ٪ | 0,010 | 7440-22-4 | |
| | | | √/6 | 14 S | | | |
| The boiling point o | f most s | olde | r allb | ys exce | eds 1300 C (2 | 2370°F) unl | ess the |
| alloy contains a su | <u>bstanti</u> | ıl am | ount o | E cadmi | um. No Lead 1 | umes are g | iven off |
| at soldering temper | atures b | elow | 538 °C | (1000 | F) | | |
| | 111. | FIRE A | ND EXP | OSTON-H | AZARD DATA | | |
| FLASH POINT () | none , | | AIR (% by | | LOWER: 1 | I/A UPPE | R: N/A |
| EXTINGUISHING MEDIA: | WATER | | CARBO DIOXID | | ALCOHOL FOAM | DRY CH | EMICAL |
| SPECIAL FIRE FIGHTING | Sold | ler a | lloys o | contain | ing a substar | itial amoun | t of |
| PROCEDURES | cadm | ium 1 | may emi | it toxi | c fumes in a | fire. | |
| NUSUAL FIRE AND | Flux in cored solder wire or paste solder may burn i | | | | | | |
| EXPLOSION HAZARDS | soldering is done with a flame. | | | | | | |
| NFPA RATING: | 000 | > | | conside | ormation contained red accurate and gi | ven in good fait | h but |
| | $\overline{}$ | | | | | | • |
| | EMERG | ENCY | PHONE | NUMBER | (312) 235–1600 | | |
| | TO . | / E C | TE | D C | AI DED | | |
| | LLI M | レロご | コIC | n ol | OLDER | | |

| and the state of t | IV. HEALTH HAZARQ DATA | |
|--|--|---|
| THRESHOLD LIA | MIT VALUE: 0.050mg/m^3 for lead; also see Section | on II |
| EFFECTS OF OV | /ER-EXPOSURE: Symptoms from ingestion and inhalat | ion include nausea |
| headache, a | abdominal discomfort, metallic taste, joint and | l muscle pains. |
| These may b | e accompanied by pallor, pyorrhea, lead line o | on gums and weight : |
| | • EMERGENCY AND FIRST AID PROCEDURES . | • |
| EYE CONTACT: | N/A | |
| SKIN CONTACT: | N/A | |
| INHALATION: 5 | see ingestion | |
| a doctor fo | thought to have been overexposed, individual or evaluation of blood lead level and any gastrul symptoms. Renal function should also be eval | cointestinal or |
| | V. REACTIVITY DATA | |
| | UNSTABLE CONDITIONS TO AVOID: | |
| STABILITY: | STABLE XX | |
| INCOMPATIBILIT | TY (MATERIALS TO AVOID): Strong oxidizers | |
| . Paragraphical | COMPOSITION PRODUCTS: None | |
| | | |
| HAZARDOUS | MAY OCCUR CONDITIONS TO AVOID: | |
| POLYMERIZATIO | | *************************************** |
| | VI. SPILL OR LEAK PROCEDURES | · · · · · · · · · · · · · · · · · · · |
| CTENC TO DE TA | | |
| STEPS TO BE TA | KEN IN CASE MATERIAL IS RELEASED OR SPILLED: N/A | |
| WASTE DISDOCAL | L METHOD: Dispose according to all federal, stat | |
| WAS IE DISPUSAL | / Melmon unspose according to an il teoeral. Stat | |
| rogulations | | |
| | . Most practical approach is to sell excess so | |
| regulations. a metals rec | . Most practical approach is to sell excess so claimer. | |
| | . Most practical approach is to sell excess so | |
| a metals rec | . Most practical approach is to sell excess so claimer. | lder material to |
| a metals rec | . Most practical approach is to sell excess so claimer. VII. SPECIAL PROTECTION INFORMATION | lder material to |
| a metals rec | . Most practical approach is to sell excess so claimer. VII. SPECIAL PROTECTION INFORMATION PROTECTION (SPECIFY TYPE): Metal fume & dust type win | lder material to |
| a metals rec | . Most practical approach is to sell excess so claimer. VII. SPECIAL PROTECTION INFORMATION PROTECTION (SPECIFY TYPE): Metal fume & dust type winder to the content of th | lder material to |
| a metals rec RESPIRATORY P | . Most practical approach is to sell excess so claimer. VII. SPECIAL PROTECTION INFORMATION PROTECTION (SPECIFY TYPE): Metal fume & dust type who LOCAL EXHAUST: preferable; SPECIAL: especially for flux fumes MECHANICAL (GENERAL): satisfactory OTHER: | lder material to |
| RESPIRATORY P VENTILATION PROTECTIVE GLO | . Most practical approach is to sell excess so claimer. VII. SPECIAL PROTECTION INFORMATION PROTECTION (SPECIFY TYPE): Metal fume & dust type who local exhaust: preferable; SPECIAL: especially for flux fumes MECHANICAL (GENERAL): satisfactory OTHER: OVES: not required EYE PROTECTION: reconstant | lder material to |
| RESPIRATORY P VENTILATION PROTECTIVE GLO | . Most practical approach is to sell excess so claimer. VII. SPECIAL PROTECTION INFORMATION PROTECTION (SPECIFY TYPE): Metal fume & dust type who LOCAL EXHAUST: preferable; SPECIAL: especially for flux fumes MECHANICAL (GENERAL): satisfactory OTHER: OVES: not required EYE PROTECTION: reconstructions reconstructions. | lder material to en applicable ommended as a part |
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| RESPIRATORY P VENTILATION PROTECTIVE GLO OTHER PROTECT PRECAUTIONS TO | Most practical approach is to sell excess so claimer. VII. SPECIAL PROTECTION INFORMATION PROTECTION (SPECIFY TYPE): Metal fume & dust type who be a dust type who | en applicable ommended as a part ndard work practice ghly with soap and older to remove |
| RESPIRATORY P VENTILATION PROTECTIVE GLO OTHER PROTECT PRECAUTIONS TO vater before exides of le | . Most practical approach is to sell excess so claimer. VII. SPECIAL PROTECTION INFORMATION PROTECTION (SPECIFY TYPE): Metal fume & dust type who have been been been been been been been be | en applicable ommended as a part ndard work practice ghly with soap and older to remove ad Industries Assoc |